

**Amendments to the Specification:**

Please replace the table listing “Drawing Elements” in page 17, with the following rewritten table:

--

Drawing Elements

Item	Number
1	plant growing device
2	plant
3	cover
4	opening
5	drop falling into liquid
6	drop falling onto root
7	root growing in gas
8	drop falling off root
9	root growing into liquid
10	gas
11	liquid
12	vessel
13	pump
14	conduit
15	conduit exit
16	plant support
17	drop guard
18	artificial photoradiation source
19	natural photoradiation source
20	arrow showing liquid delivery for first portion
21	tube
22	drop descending along root
23	drop falling from plant support
25	drop height
28	exit for first portion
29	exit for second portion
33	liquid level gauge
41	liquid directing means
42	terrace
43	terrace support means
44	aerator support means
45	terrace wall
46	terrace wall opening
47	terraced aerator
<b>48</b>	<b><del>lower cover leg</del></b>
100	hydroponic device with photoradiation apparatus and smart garden

--

Please replace the paragraph on lines 3-10 of page 12, with the following rewritten paragraph:

-- Vessels of this invention are removably coverable by a cover that has at least one plant opening for removably suspending a plant. Preferably covers are not permeable to photoradiation that would interfere with plant growth or would promote growth of unwanted organisms such as algae. Preferably the devices of this invention are also not permeable to liquids except at the plant opening(s) and any other opening functioning in liquid transfer, such as a liquid fill inlet or outlet. Optionally the cover comprises two or more layers, e.g., an upper and lower cover, **3A and 3B in the Figures, respectively**. When a device of this invention comprises an upper cover **3A** and a lower cover **3B**, both covers have at least one set of plant openings that are horizontally aligned.--

Please replace the paragraph on page 25, line 31, to page 26, line 5, with the following rewritten paragraph:

-- FIG. 14A is an illustration showing a top perspective view of an alternative hydroponics device **1** of this invention, **showing a top perspective view of the upper cover 3A**, showing a liquid level gauge **33**. FIG. 14B is an illustration showing a top view of the lower cover **3B** of the device show in FIG. 14A, **with the upper surface of the lower portion of a conduit 14B visible**. An exit for the second portion **29** to the plant opening **4** is shown. FIG. 14C is an illustration showing a bottom perspective view of the lower cover **3B** of the device show in FIG. 14A. The pump **13**, tube **21** from which the liquid leaves the pump **13** to the cover, and the downdraft venturi **130** are labeled. FIG. 14D is an illustration showing a detail cross-sectional view of the tube **21**, valve **188**, and venturi **130** are shown. The arrow **20** shows the delivery pathway of the first portion of liquid. A valve **188** directs water to the conduit **14** for the second portion of liquid and to the downdraft venturi **130** for the first portion of liquid. In FIG. 14D, the downdraft venturi appears to not be open on the bottom because the venturi is at an angle relative to the cross-sectional plane, but the venturi is configured to allow the liquid to fall directly to the reservoir liquid that would be in the vessel (not shown). --